

**PATENT DRAWING REVIEW NOTICE**  
(Under 37 CFR 1.84 and 1.152)

The drawing(s), filed on 8/20/2003, are approved by the USPTO Drafting Standard.

<p><b>1) Drawings. 1.84(a):</b> Acceptable categories of drawings: Black ink or Color (3 sets required). <input type="checkbox"/> Color drawings are not acceptable until petition is granted. Fig(s) _____ <input type="checkbox"/> Pencil and non black not permitted. Fig(s) _____</p> <p><b>2) Photographs. 1.84(b):</b> <input type="checkbox"/> One (1) full tone set is required. Fig(s) _____ <input type="checkbox"/> Photographs may not be mounted. 1.84(e). <input type="checkbox"/> Photographs must meet paper size requirements of 1.84(f). Fig(s) _____</p> <p><b>3) Type of paper. 1.84(e):</b> <input type="checkbox"/> Paper not flexible, strong, white and durable. Fig(s) _____ <input type="checkbox"/> Erasures, alterations, over writings, interlineations, folds; copy machine marks not not accepted. Fig(s) _____</p> <p><b>4) Size of paper. 1.84(f):</b> Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) 21.6 cm by 27.9 cm (8 1/2 x 11 inches) <input type="checkbox"/> All drawing sheets not the same size. Sheet(s) _____ <input type="checkbox"/> Drawing sheets not an acceptable size. Fig(s) _____</p> <p><b>5) Margins. 1.84(g):</b> Acceptable margins: Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm <input type="checkbox"/> Margins not acceptable: Fig(s) _____ <input type="checkbox"/> Top (T) <input type="checkbox"/> Left (L) <input type="checkbox"/> Right (R) <input type="checkbox"/> Bottom (B)</p> <p><b>6) Views. 1.84(h):</b> REMINDER: Specification may require revision to correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig. 1B, and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed. <input type="checkbox"/> View not labeled separately or properly. Fig(s) _____</p> <p><b>7) Sectional views. 1.84(h)(3):</b> <input type="checkbox"/> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____</p>	<p><b>8) Arrangement of views. 1.84(i):</b> <input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____</p> <p><b>9) Scale. 1.84(k):</b> <input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____</p> <p><b>10) Character of lines, numbers &amp; letters. 1.84(l):</b> <input type="checkbox"/> Lines, numbers and letters not uniformly thick and well defined, clean, durable and black (poor) line quality. Fig(s) _____</p> <p><b>11) Shading. 1.84(m):</b> <input type="checkbox"/> Solid black areas pale. Fig(s) _____ <input type="checkbox"/> Solid black shading not permitted. Fig(s) _____</p> <p><b>12) Numbers, letters, &amp; reference characters. 1.84(p):</b> <input type="checkbox"/> Numbers and reference characters not plain and legible. Fig(s) _____ <input type="checkbox"/> Figure legends are poor. Fig(s) _____ <input type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 1.84(p)(1). Fig(s) _____ <input type="checkbox"/> English alphabet not used. 1.84(p)(2). Fig(s) _____ <input type="checkbox"/> Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 1.84(p)(3). Fig(s) _____</p> <p><b>13) Lead lines. 1.84(q):</b> <input type="checkbox"/> Lead lines missing. Fig(s) _____</p> <p><b>14) Numbering of sheets of drawings. 1.84(t):</b> <input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numbers beginning with number 1. Fig(s) _____</p> <p><b>15) Numbering of views. 1.84(p)(u):</b> <input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____</p> <p><b>16) Design drawings. 1.152</b> <input type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____ <input type="checkbox"/> Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s) _____</p>
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**COMMENTS:**

Reviewer: Wm. J. Sale  
If you have questions, call at 703.305.8404

Date: 5/4/2004  
Attachment Paper No: 20040504

Attachment for PTO-948 (Rev. 03/01, or earlier)  
6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

**INFORMATION ON HOW TO EFFECT DRAWING CHANGES**

**1. Correction of Informalities – 37 CFR 1.85**

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may **NOT** be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

**2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.**

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

**Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.